

Human TRAIL/TNFSF10 Antibody

Monoclonal Mouse IgG₁ Clone # 75402 Catalog Number: MAB687

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human TRAIL in direct ELISAs.	
Source	Monoclonal Mouse IgG ₁ Clone # 75402	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TRAIL Thr95-Gly281 Accession # P50591	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below
Immunohistochemistry	8-25 μg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of TRAIL/TNFSF10 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs), (A) treated with rhIFN- alpha for 48 hours (150 ng/mL), or (B) untreated, were stained with Mouse Anti-Human TRAIL/TNFSF10 Monoclonal Antibody (Catalog # MAB687) followed by PE-conjugated anti-Mouse IgG Secondary Antibody (Catalog # F0101B) and Mouse Anti-Human CD14 APC-conjugated Monoclonal Antibody (Catalog # FAB3832A). Quadrant markers were set based on control antibody staining (Catalog # MAB002). View our protocol for Staining Membraneassociated Proteins.

Immunohistochemistry



TRAIL/TNFSF10 in Human Colon. TRAIL/TNFSF10 was detected in immersion fixed paraffin-embedded sections of human colon using Human TRAIL/TNFSF10 Monoclonal Antibody (Catalog # MAB687) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of lamina propria cells.. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE				
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.			
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C			
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. 			

BACKGROUND

TRAIL is a type II transmembrane protein belonging to the TNF superfamily and is now designated TNFSF10. TRAIL is active as a homotrimer and is produced by a variety of cell types in both the membrane bound form and also as a soluble molecule. It binds to any of the four TRAIL receptors as well as to Osteoprotegerin.

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